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PATENT
ATTORNEY DOCKET NO.: 056921-5137

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION of:

DAVIS et al.

Application No.: 09/869,925

Filed: July 9, 2001

FOR: COLCHINOL DERIVATIVES AS
VASCULAR DAMAGING AGENTS

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) Group Art Unit: 1653
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) Examiner: Lukton, David
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Commissioner for Patents
U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Date: September 8, 2003

Sir:

INFORMATION DISCLOSURE STATEMENT

Citation of Related U.S. Patent Applications

The Examiner's attention is directed to the following related co-pending U.S. patent applications:

Examiner's Initials	Inventor	U.S. Serial No.	U.S. Filing Date	PCT Publication No.	PCT Publication Date
	Davis et al.	09/869,925	08/23/2001	WO 00/40529	July 13, 2000
	Dougherty	09/477,805 USP 6,423,753	01/05/2000	WO 99/02166	Jan. 21, 1999
	Arnould et al.	10/332,129	01/06/03	WO 02/04434	Jan. 17, 2002
	Arnould	10/332,271	01/07/2003	WO 02/08213	Jan. 31, 2002

A copy of the specification and claims for each application, either in the form of a U.S. patent issued on that application and/or the published PCT application from which such application was filed, has previously been provided or is being filed herewith.

PLEASE DO NOT PRINT the above information on the patent resulting from the subject application.

Consideration of each listed application is earnestly solicited since unpublished patent applications are contemplated as IDS material; see the exception in Rule 98(a)(2)(iii) and note the penultimate sentence of MPEP 609.

Further, in keeping with MPEP 609, Subsec. C(2), 2nd para., line 10 to end of the paragraph (especially note lines 18-25) PLEASE RETURN A COPY OF THIS LETTER with the Examiner's initials adjacent each above listing so that applicant will know that each listed application has been considered as required by PTO policy.

Citation of Documents

Attached is a Form PTO-1449 listing the enclosed documents.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no certification under 37 CFR §1.97(e) or fee under 37 CFR §1.17(p) is required.

This Information Disclosure Statement is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to fully comply.

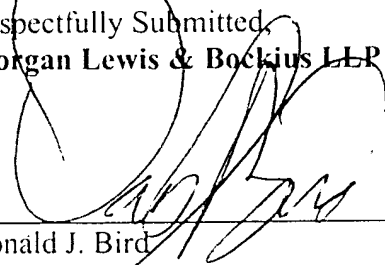
Consideration of the foregoing and enclosures plus the return of a copy of the herewith filed Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 along with an early action on the merits of this application are earnestly solicited.

Except for issue fees payable under 37 C.F.R. §1.18, the Director is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0310. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** -in accordance with 37 C.F.R. §1.136(a)(3).

Respectfully Submitted,
Morgan Lewis & Bockius LLP

Date: September 8, 2003
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FORM PTO-1449 (modified)
To: U.S. Department of Commerce
Patent and Trademark Office

Attorney Document No.

Client Ref.

056291-5137

Z70457-1P US

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Examiner: Lukton, David

Group Art Unit: 1653

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	5,760,092	Timashef et al.			
	BR	5,843,910	Bombardelli et al.			
	CR	5,561,122	Pettit			
	DR	6,423,753 B1	Dougherty			

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
	ER	4.685 M	01/1967	France	Roussel-Uclaf			
*	FR	97/47577	12/1997	WIPO	Bombardelli			
*	GR	99/02166	01/1999	WIPO	Dougherty			
	HR	00/48606 A1	08/2000	WIPO	Pero et al.			
	IR	39-19634	09/1964	Japan	Nakamura			X
	JR	39-19635	09/1964	Japan	Nakamura			X

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

KR	Abu Zarga et al., "New Natural Dibenzocycloheptylamine Alkaloids": A Possible Catabolic Route for the Colchicine Alkaloids", J. Nat. Prod., (1991), 54(4), 936-940			
LR	Al-Tel et al., "New Natural Colchicinoids: Indications of Two Possible Catabolic Routes for the Colchicine Alkaloids", J. Nat. Prod., (1990) 53 (3), 623-629			
MR	Banwell et al., "Total Syntheses of the Structures Assigned to Salimine and Jerusalemine, Alkaloids from <i>Colchicum decaisnei</i> Boiss. (Liliaceae)", J. Chem. Soc., Chem. Commun., (1994) (22) 2647-2649			
NR	Banwell, et al., "Synthesis and Tubulin-Binding Properties of Some AC- and ABC-Ring Analogues of Alcolchicine", Aust J Chem., (1992), 45, 1967-1982			
OR	Battersby et al., "Biosynthesis. Part 26 ¹ . Synthetic Studies on Structural Modification of Late Biosynthetic Precursors for Colchicine", J. Chem. Soc., Perkin Trans 1, (1983), (12), 3053-3063			
PR	Boger et al., "Thermal Reactions of Cyclopropanone Ketals. Application of . . . Total Synthesis of Colchicine", J. Am. Chem. Soc., (1986) (108 (21), 6713-6719			
QR	Boyé et al. "185. Deaminocolchinyll Methyl Ether: Synthesis from . . . Effects of Deaminocolchinyll Methyl Ether and Dehydro Analogs", Helv. Chem. Acta, (1989), 72 (8), 1690-1696			

Examiner

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FORM PTO-1449 (modified) To: U.S. Department of Commerce Patent and Trademark Office				Attorney Docket No. 056291-5137		Client Ref. Z70457-1P US	
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	AR	3,442,953	Muller et al.			
	BR	5,880,160	Bombardelli et al.			
	CR	5,973,204	Bombardelli			

FOREIGN PATENT DOCUMENTS						English Abstract		Translation Readily Available	
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	DR	00/48606 A1	WIPO	Pero et al.					
	ER	02/04434	WIPO	Arnould et al.					
	FR	02/08213	WIPO	Arnould					

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)									
GR	Boyé et al. "Potential Covalent Markers of the Colchicine-Binding-Site . . . Isothiocyanato Groups", Med.Chem. Res., (1991), 1 (2), 142-150								
HR	Boye et al., "Natural Products. Antitubulin effect of congeners of N-acetylocolchinyll . . . of demethoxy analogues of deaminocolchinyll methyl ether", Can. J. Chem., (1992), 70 (5), 1237-1249								
IR	Boyé et al., "Synthesis of ¹⁴ C Labelled Electrophilic Ligands of the Colchicine . . . 9-Deoxy-N-Acetylcolchinol.", J. Labelled Compd Radiopharm., (1993) 33(4), 293-299								
JR	Brecht et al., "(-)-(M,7S)-Colchicine and (-)-(M,7S)-10-Ethylthiocolchicide/Alkyne . . . Consecutive [4+2] and [3+2] Cycloadditions", Eur. Jour. Org. Chem., (1998) (11) 2451-2460								
KR	Brossi et al., "aS, 7S-absolute configuration of natural (-)-colchicine and allocongeners", FEBS Lett., (1990), 262 (1), 5-7								
LR	Deinum et al., "Synthesis and Binding to Tubulin of an Allocolchicine Spin Probe." Acta Chem. Scand, Ser B (1981) B35 (10), 677-681								
MR	Dilger et al., "Arbeitsvorschriften und Meßwerte Procedures and Data Formaldehyd-O-oxid und Colchicine: ein eleganter Zugang zu Allocolcicinen", J. Prakt Chem./Chem-Ztg, (1998), 340 (5), 468-471 (in German)				x				x
NR	Dokl Akad Nauk USSR, (1991) (4) 33-35					x			x
OR	Dumortier et al., "Alternations of Rings B and C of Colchicine Are Cumulative in Overall Binding to Tubulin but Modify Each Kinetic Step", Biochemistry, (1996), 35 (49), 15900-15906								

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AR	6,080,739	06/2000	Bombardelli				
BR							
CR							

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DR										
ER										
FR										

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)						
GR	Fernholz, "Über die Umlagerung des Colchicins mit Natriumalkoholat und die Struktur des Ringes C ¹ ", Justus Liebigs Ann. Chem., CODEN: JLACBF, 568, (1950), 63-82					
HR	Fitzgerald, "Molecular Features of Colchicine Associated with Antimitotic Activity and Inhibition of Tubulin Polymerization", Biochemistry Pharmacology, (1976), 25, 1383-1387					
IR	Ghera et al., "Total Synthesis of Lignan (±)-Schizandrin", J. Chem. Soc., Chem. Commun., (1978) (11), 480-481					
JR	Hahn et al., "Synthesis and Evaluation of 2-Diazo-3,3,3-Trifluoropropanoyl . . . Photochemistry, and Tubulin Binding", Photochem. Photobiol., (1992) 55 (1), 17-27					
KR	Han et al., "Distances between the Paclitaxel, Colchicine, and Exchangeable GTP Binding Sites on Tubulin", Biochemistry, (1998), 37 (19), 6636-6644					
LR	Hastie, "Spectroscopic analyses of colchicinoid-tubulin complexes", Cellular Pharmacology, (1993), 1 (Suppl. 1), S17-S21					
MR	Hastie, "Spectroscopic and Kinetic Features of Alcolchicine Binding to Tubulin", Biochemistry, (1989), 28 (19), 7753-7760					
NR	Hrbek et al., "Circular Dichroism of Alkaloids of Colchicine Type And Their Derivatives", Collect. Czech. Chem. Commun., (1982), 47 (8), 2258-2279					
OR	Iorio, "Contraction of the Tropolonic Ring of Colchicine by Hydrogen Peroxide Oxidation", Heterocycles, (1984), 22 (10), 2207-2211					

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FR							
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)							
GR	Izv Akad Nauk Turkm SSR, Ser Fiz-Tekh, Khim Geol Nauk, (1976), (1), 70-73				x		x
HR	Kiselev et al., "Benzenoid Rearrangement of Colchicine by the Action of Ethylene Glycol", Zh. Org. Khim., (1977), 13 (11), 2337-2342 (in Russian) (English translation attached)						
IR	Kiselev et al., "Derivatives of Aminocolchicide" Obshch. Khim., (1970), 40 (4), 914-915 (in Russian, English translation attached)						
JR	Kiselev, "Derivatives of Aminocolchicide. VII", Zh. Zh. Obshch. Khim., (1971), 41 (2) 464-466 (in Russian, English translation attached)						
KR	Kita et al., "Non-phenolic oxidative coupling of phenol ether derivatives using phenyliodine (III) bis(trifluoroacetate)", Chem. Commun. (Cambridge), (1996) (12), 1481-1482						
LR	Leiter et al., "Damage Induced in Sarcoma 37 with Chemical Agents. III. Colchicine Derivatives Related to Trimethylcolchicinic Acid and to Colchinal", J. Natl. Cancer Inst., (1952), 13, 379-392						
MR	Mackay et al., "Structures of Colchicine Analogues. IV. An Aminodibromoalcolchicine, C ₂₀ H ₂₂ Br ₂ N ₂ O ₄ ", Acta Crystallogr, Section C: Cryst. Struct Commun, (1991) C47 (12), 2615-2618						
NR	Medrano, "Roles of Colchicine Rings B and C in the Binding Process to Tubulin", Biochemistry, (1989), 28 (13), 5589-5599						
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	ER								
	FR								

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)					
GR	Menéndez et al., "A Thermodynamic Study of the Interaction of Tubulin with Colchicine Site Ligands", J. Biol. Chem., (1989), 264, (28), 16367-16371				
HR	Olszewski et al., "Potential Photoaffinity Labels for Tubulin. Synthesis and . . . Colchicine, Combretastatin, and 3,4,5-Trimethoxybiphenyl", J. Org. Chem., (1994), 59 (15) 4285-4296				
IR	Ondra et al, "Colchicinoide - Ihre Toxizität Und Biologische Aktivität", Acta Univ Palacki Olomuc Fac Med, (1995) 139, 17-18				
JR	Palmquist et al., "Anodic Oxidation of Phenolic Compounds. 4. ^{1a} Scope and Mechanism of the Anodic Intramolecular Coupling of Phenolic Diarylalkanes", J. Am. Chem. Soc., (1976), 98(9), 2571-2580				
KR	Perez-Ramirez et al., "Cosolvent Modulation of the Tubulin-Colchicine GTPase-Activating Conformational Change: Strength of the Enzymatic Activity", Biochemistry, (1994), 33 (20), 6262-6267				
LR	Perez-Ramirez et al., "Linkages in Tubulin-Colchicine Functions: The Role of Ring C (C') Oxygens and Ring B in the Controls", Biochemistry, (1998), 37 (6), 1646-1661				
MR	Perez-Ramirez et al., "Stoichiometric and Substoichiometric Inhibition of Tubulin Self-Assembly by Colchicine Analogues", Biochemistry, (1996), 35 (10), 3277-3285				
NR	Perez-Ramirez et al., "The Colchicine-Induced GTPase Activity of Tubulin: State of the Product. Activation by Microtubule-Promoting Cosolvents," Biochemistry, (1994), 33 (20), 6253-6261				

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ER							
FR							
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)							
GR	Powell et al., "Role of Ring C Substituents Related to Alcolcolchicine on Antitubulin Action", Med. Chem. Res., (1996), 164-173						
HR	Prakash et al., "Aging of Tubulin at Neutral pH: Stabilization by Colchicine and its Analogues", Archives of Biochem & Biophysics (1992), 295 (1), 146-152						
IR	Pyles et al., "Role of the B-Ring Substituent in the Fluorescence of Colchicinoid-Tubulin and Alcolcolchicinoid-Tubulin Complexes", Biochemistry, (1992), 31 (31), 7086-93						
JR	Rossi et al., "Structural Analysis of the Substoichiometric and Stoichiometric Microtubule-Inhibiting Biphenyl Analogues of Colchicine", Biochemistry, (1996), 35 (10), 3286-3289						
KR	Schönharting et al., "Metabolic Transformation of Colchicine I. The Oxidative Formation of Products from Colchicine in the Udenfriend System", Hoppe-Seyler's Z. Physiol.Chem., (1973), 354 (1), 421-436				x		
LR	Shearwin et al., "Effect of Colchicine Analogues on the Dissociation of $\alpha\beta$ into Subunits: The Locus of Colchicine Binding", Biochemistry, (1994), 33 (4), 894-901						
MR	Shi et al., "Antitumor Agents Part 184 ¹) Syntheses and Antibutulin Activity of Compounds Derived from Reaction of Thiocolchicone with Amiens: Lactams, Alcohols, and Ester Analogs of Allothiocolchicinoids", Helv Chim Acta, (1998), 81, 1023-1037						
NR	Shi et al., "Antitumor Agents. 183. Syntheses, Conformational Analyses, and Antitubulin Activity of Allochiocolchicinoids", J. Org. Chem., (1998), 63, 4018-4025						
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GR	Shi et al., "Antitumore Agents. 172. Synthesis and Biological Evaluation of Novel Deacetamidothiocolchicin-7-ols and Ester Analogs as Antitubulin Agents", J. Med. Chem., (1997), 40, 961-966						
HR	Staretz et al., "Synthesis, Photochemical Decomposition, and Tubulin Binding of 10-Azido-10-demethoxycolchicine and 9-Azido-9-demethoxyisocolchicine", J. Org. Chem., (1991) 56 (1), 428-432						
IR	Sterzl et al., "Effect of Colchicine Derivatives on the Antibody Response Induced <i>in vitro</i> ", Folia Microbiol. (Prague), (1982), 27 (4), 256-266						
JR	Tang-Wai et al., "Structure Activity Relationships in the Colchicine Molecule with Respect to Interaction with the Mammalian Multidrug Transporter, P-Glycoprotein", Heterocycles, (1994), 39 (1) 385-403						
KR	Timbekov et al., "Mass-Spectrometric Study of New Alkaloids from Plants of the Family Liliaceae", Khim. Pri. Soedin, (1985) (1) 3-11 (in Russian) (English translation attached)						
LR	Tojo et al., "The Dibenzocycloheptylamine Alkaloids", J. Nat. Prod., (1989), 52 (5), 1163-1166						
MR	Ward et al., "Energy Transfer Studies of the Distance between the Colchicine, Ruthenium Red, and BisANS Binding Sites on Calf Brain Tubulin", Biochemistry, (1994), 33 (39), 11900-11908						
NR	Ward et al., "Energy-Transfer Studies of the Distance . . . Binding Sites on Calf Brain Tubulin", Biochemistry, (1988), 27 (5), 1508-1514						
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GR	Wolff et al., "Cochicine Binding to Antibodies", J. Biol. Chem., (1980) 255 (15), 7144-7148						
HR	Wosikowski et al., "Identification of Epidermal Growth Factor Receptor and c-erbB2 Pathway Inhibitors by Correlation With Gene Expression Patterns", J. Natl. Cancer Inst., (1997), 89 (20) 1505-1515						
IR	Xie et al., "Synthesis of three new Schizandrin Analogues", Chin. Chem. Lett., (1998) 9 (7) 631-634						
JR	Yusupov et al., "A Study of 2-Demethylalcolchicine and Its Derivatives", Khim. Priir. Soedin, (1973), (2), 194-196 (in Russian) (English translation attached)						
KR	Zh Obshch Khim., (1994) 64(5) 856-864 (in Russian)						
LR	Zweig et al., "Inhibition of Sodium Urate-Induced Rat Hindpaw Edema by Colchicine Derivatives: Correlation with Antimitotic Activity", J. Pharmacol. Exp. Therapeutics, (1972), 182(2), 344-350						
MR	Zweig et al., "Interaction of Some Colchicine Analogs, Vinblastine and Podophyllotoxin with Rat Brain Microtubule Protein", Biochemistry Pharmacology, (1973), 22, 2141-2150						
PR	Hunter et al., "The photo-oxidation of some novel Colchicine derivatives", Afinidad, Vol, 38, No. 372, 1981, pp. 122-123						
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Group Art Unit: 1653

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AR						
BR						
CR						

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
DR								
ER								
FR								

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

OR	Kang et al., "n-acetylcolchinol 0-methyl ether and thiocolchicine, potent nalogs of colchicine modified in the C-ring" Journal of Biological Chemistry, Vol. 265, No. 18, June 25, 1990, pp. 10255-10259, XP002081868, ISSN: 0021-9258			
GR	Timbekov et al., "Mass Spectrometric Study of Alkaloids of the Homoaprophine, Homomorpine and Allocolchicine Series", "Tezisy Dokl. = Sov.-Indiiskii Simp. Khim. Prir. Soedin., 5th (1978), p. 85 (Chemical Abstracts attached)			
PR	Mackay et al., "Structures of Colchicine Analogues. I. Allocolchicine", Acta Cryst, (1989), C45, 795-799			
HR				
IR				
JR				
KR				
LR				
MR				
QR				
NR				

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.